

## DialogIP

**Heat-sensitive material - contg. hydrophilic polymer water and water-soluble salts for improved reversable thermal changes****Patent Assignee: ASAHI DOW LTD****Patent Family**

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
JP 51003248	A	19760112				197609	B
JP 81035703	B	19810819				198137	

**Priority Applications (Number Kind Date): JP 7472247 A ( 19740626)****Abstract:**

JP 51003248 A

A heat-sensitive material which shows reversible thermal change in such a way that it is opaque at above a specific temp. and becomes transparent when cooled to below that specific temp. comprises a mixt. of <5 wt.% of hydrophilic polymer and 0.1-95 wt.% of water and contains water-soluble salt in amt. not exceeding its satn. solubility. The salt is soluble in the mixt.

The hydrophilic polymer dissolves or swells homogeneously in water at a specific temp. e.g. as polyethylene oxide, vinyl alcohol - vinyl acetate copolymer, polyvinyl methyl ether and natural polymers such as polysaccharides. The water-soluble salts include organic and inorganic salts and are used in amts. of 0.1-30 pts. per 100 pts. of the mixt. (by wt.).

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